

**TELECOMMUNICATIONS
SITE INSPECTION SURVEY
FOR
REMOTE TELECOMMUNICATIONS SITES**

A. Survey Date: Sept 12, 2005
B. Survey Completed By: Marsha Ruby
C. Site Name: Scout Peak

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Site Name: _____

SECTION 1 – Site Background Data

- 1-1 County Location of Site: _____
- 1-2 Alternate Site Name: _____
- 1-3 TD's Plot Plan and Site Access Drawing Number: _____
- 1-4 TD's Vault Layout Drawing Number: _____
- 1-5 TD's Tower Drawing Number: _____
- 1-6 TD's Antenna Assignment Drawing Number: _____
- 1-7 TD's Badger Meter Connectorized Wall Block Drawing Number: _____
- 1-8 Site Owner: _____
- 1-9 Agency Vault Manager: _____
- 1-10 Lessor of Vault: _____
- 1-11 Lessor of Tower: _____
- 1-12 Facility Agency Contact: _____
- 1-13 Facility Agency Contact Person: _____
- 1-14 Facility Agency Contact Telephone: _____
- 1-15 For certain sites, site legal description:

- 1-16 Does TD or the Agency have a copy of the Right-of-Way to the site? Yes / No
- 1-17 What is the site's FCC call sign(s)? _____
- 1-18 What is the site's FCC license coordinates?

1-19 Degrees _____ Minutes _____ Seconds _____ N. Latitude

1-20 Degrees _____ Minutes _____ Seconds _____ W. Longitude

1-21 NAD 27 or NAD 83? _____ (North American Datum 1927 or 1983)

1-22 Elevation AMSL (Above Mean Sea Level)? _____ feet

Site Name: _____

1-23 TD's Comsearch data sheets for all microwave paths to the site: _____

1-24 USGS (United States Geological Survey) map(s) number containing the site and adjacent road(s) to the site: _____

1-25 Any additional relevant site background data information?

Site Name: _____

SECTION 2 - Site Access Data

2-1 Land Owner: _____

2-2 Access to the site via (route to the site):

First
4 wheel drive only - 4 miles
Snow travels in winter

2-3 Right-of-Way route to the site:

2-4 Number of locked gates to gain access to site? 1

2-5 Key information or lock combination at first gate: yes

2-6 How to identify the first lock? ATC Lock 1220 combo.

2-7 Key information or lock combination at second gate: _____

2-8 How to identify the second lock? _____

2-9 Key information or lock combination at third gate: _____

2-10 How to identify the third lock? _____

2-11 Key information or lock combination at additional gate(s): _____

2-12 How to identify additional lock(s)? _____

2-13 Any additional relevant site access information?

Special key to the generator room
Lock T-130
Caltrans

Site Name: _____

SECTION 3 – Surrounding Site Data

- 3-1 Are there other telecommunications users within 100 yards? Yes ☒ No
- 3-2 Are there other telecommunications towers within 100 yards? Yes ☒ No
- 3-3 Is the immediate area controlled by the State Parks Department? Yes ☒ No
- 3-4 Is the immediate area controlled by the State? Yes ☒ No
- 3-5 Is the immediate area controlled by the Federal government? Yes ☒ No
- 3-6 Can the site be expanded without major environmental impact issues? Yes ☒ No

Explain: Unknown

- 3-7 Does the immediate area (the area that the State may expand upon) show signs of 'previously disturbed' prior construction? Yes ☒ No
- 3-8 Does the area within 100 yards contain large trees (20" diameter or more)? Yes ☒ No
- 3-9 Does the area contain ground level (5 feet height) line-of-site to other hilltops or sites that may contain State telecommunications facilities? Yes ☒ No
- 3-10 Any additional relevant surrounding site data information?

USFS limited access road to site

Site Name: _____

SECTION 4 – Tower Data

- 4-1 How many telecommunications tower(s) are at the general site: 3
State? 1 Non-State? 2
- 4-2 How many State used telecommunications tower(s) are at the site? 1
- 4-3 Prepare a Tower Data sheet for each State used telecommunications tower.
- 4-4 This is sheet number _____ of _____ sheet(s).
- 4-5 What are the measured GPS coordinates of the tower?
- 4-6 Degrees 38 Minutes 48.352 Seconds _____ N. Latitude
- 4-7 Degrees 120 Minutes 02.525 Seconds _____ W. Longitude
- 4-8 NAD 27 or NAD 83? _____ (North American Datum 1927 or 1983)
- 4-9 Elevation AMSL (Above Mean Sea Level)? 8,542 feet
- 4-10 If the State has an FCC license for this site, are the coordinates measured the same as the FCC license coordinates? Yes / No
- 4-11 The tower has how many legs? 3
- 4-12 Is the tower freestanding or guyed? Freestanding / Guyed
- 4-13 If the tower is guyed, how many guys are used? _____
- 4-14 What is the tower height? 60 feet
- 4-15 What is the distance between the tower legs (center to center)? 3 feet
- 4-16 What is the circumference of the tower (pipe) legs at ground level? 9 1/2 "
- 4-17 Does the tower contain microwave antenna ice shields? Yes / No
- 4-18 If so, how many? _____
- 4-19 Does the tower contain unused microwave antenna mounts? Yes / No
- 4-20 If so, how many? 1
- 4-21 Does the tower contain unused VHF/UHF antenna outriggers? Yes / No
- 4-22 If so, how many? _____
- 4-23 How many microwave antenna(s) are on the tower? 11 various type
- 4-24 Does the tower contain a climbing ladder? Yes / No
- 4-25 Does the tower have a waveguide ladder? Yes / No
- 4-26 Is there a waveguide bridge between the tower and the vault entry plate? Yes / No

Other tower is/guy has 1 antenna

Site Name: _____

4-27 Any additional relevant site tower data information?

Tower

Misc -

Peer that holds supports the vault
is somewhat pulling away.

Could Green tower & IDS tower
be a hazard bolts are coming loose (old site tower)

Site Name: _____

SECTION 5 – Vault Data

5-1 How many telecommunications vaults (any user) are at the site? 1

5-2 How many State telecommunications vaults are at the site? 1

5-3 Prepare a Vault Data sheet for each State telecommunications vault.

5-4 This is sheet number _____ of _____ sheet(s).

5-5 What is the vault construction type:

5-6 Prefabricated with concrete walls and roof? Yes / No

5-7 Prefabricated with composite walls and roof? Yes / No *Faberglass*

5-8 Prefabricated with insulation in walls and roof? Yes / No

5-9 Prefabricated on wood runners? Yes / No

5-10 Prefabricated on concrete slab? Yes / No *per blocks*

5-11 Metal fabricated building with / without insulation? With / Without

5-12 Concrete masonry building with insulation in walls? Yes / No

5-13 Concrete masonry building with insulation in ceiling? Yes / No

5-14 Concrete masonry building with drywall interior? Yes / No

5-15 Wooden structure with insulation in walls? Yes / No

5-16 Wooden structure with insulation in ceiling? Yes / No

5-17 Wooden structure with drywall interior? Yes / No

5-18 What is the vault roof type:

5-19 Flat roof (slope is less than 1/2" per linear foot)? Yes / No

5-20 Shed roof (complete roof is one slope)? Yes / No

5-21 Hip roof (roof contains two or more slopes)? Yes / No

5-22 What is the vault roofing material type:

5-23 Concrete? Yes / No

5-24 Standing Metal Seam? Yes / No

5-25 Corrugated Sheet Metal? Yes / No

5-26 Composite? Yes / No

5-27 Vault dimensions, exterior:

5-28 Length? 28'2"

5-29 Width? 9'6"

5-30 Roof height at eaves? 9'2"

Site Name: _____

5-31 Vault dimensions, interior:

5-32 Length? 27'8"

5-33 Width? 9'

5-34 Ceiling height? 8'8"

5-35 Is the vault insulated? Yes (No)

5-36 If so, what is the type of insulation? _____

5-37 How many rooms does the vault contain? 1

5-38 Does the vault have a generator room? no

5-39 Is other equipment stored in the equipment room? (Yes) No

5-40 Is other equipment stored in the generator room? (Yes) No

5-42 Does asbestos appear to be present in the vault? (Yes) No

5-43 In what part of the vault does there appear to be asbestos? confirmed 10% floor tiles

5-44 Does the vault have an oiler? Yes (No)

5-45 Please estimate how much oil is currently present in the oiler? n/a

5-41 Any additional relevant site vault data information?

1 1/2 racks empty
(Rack space 5 is not there
space for 1 rack near CHP rack

Isleway space is not 3ft.
Charger and battery in the isle

Site Name: _____

SECTION 6 – Telecommunications Equipment Data

Site Frequency(s) / Licensing:

	<u>TX Frequencies</u>	<u>RX Frequencies</u>	<u>ERP</u>	<u>Licensee(s)</u>	<u>Call Sign</u>
14	6-1A <u>154.68000</u>	6-1B <u>155.46000</u>	6-1C <u>152</u>	6-1D <u>DOJ</u>	6-1E <u>KZR676</u>
13	6-2A <u>151.4300</u>	6-2B <u>159.4200</u>	6-2C <u>215</u>	6-2D <u>F+G</u>	6-2E <u>KCN667</u>
12	6-3A <u>172.375</u>	6-3B <u>171.575</u>	6-3C	6-3D <u>USDA</u>	6-3E <u>not posted</u>
12	6-4A <u>414.025</u>	6-4B <u>412.575</u>	6-4C <u>?</u>	6-4D <u>FBI</u>	6-4E
11	6-5A <u>6785.0</u>	6-5B <u>6665.0</u>	6-5C	6-5D <u>clock files</u>	6-5E
10	6-6A <u>6865.0</u>	6-6B <u>6705.0</u>	6-6C	6-6D <u>no info</u>	6-6E
9	6-7A <u>2192.8</u>	6-7B <u>2142.8</u>	6-7C	6-7D <u>no info</u>	6-7E
8	6-8A <u>860.7375</u>	6-8B <u>815.7375</u>	6-8C <u>220</u>	6-8D <u>Caltrans</u>	6-8E <u>KNCR561</u>
8	6-9A	6-9B <u>42.48</u>	6-9C	6-9D <u>Caltrans</u>	6-9E
8	6-10A	6-10B <u>42.54</u>	6-10C	6-10D <u>Caltrans</u>	6-10E
7	6-11A <u>154.160</u>	6-11B <u>159.135</u>	6-11C <u>144</u>	6-11D <u>OES Firenet</u>	6-11E <u>KDV755</u>
6	6-12A <u>45.84</u>	6-12B <u>45.84</u>	6-12C	6-12D <u>Caltrans</u>	6-12E <u>KPJ836</u>
6	6-13A <u>154.980</u>	6-13B <u>153.755</u>	6-13C	6-13D <u>OESRS</u>	6-13E <u>NSN887</u>
R592194	6-14A <u>042.420</u>	6-14B <u>042.680</u>	6-14C	6-14D <u>CHP</u>	6-14E <u>KA4993</u>
R733413	6-15A <u>45.50</u>	6-15B <u>37.420</u>	6-15C	6-15D <u>ELD ⁵⁰ County</u>	6-15E
3	6-16A <u>463.175</u>	6-16B <u>468.175</u>	6-16C	6-16D <u>Mid Ne F</u>	6-16E
	6-17A	6-17B	6-17C	6-17D	6-17E
	6-18A	6-18B	6-18C	6-18D	6-18E
	6-19A	6-19B	6-19C	6-19D	6-19E
	6-20A	6-20B	6-20C	6-20D	6-20E

Site Name: _____

6-46 Any additional relevant telecommunications equipment data information?

Site Name: _____

- 6-21 Does the site have State microwave radio service? Yes / No
- 6-22 If so, what is the frequency band of the State microwave service? 6/7 GHz
- 6-23 If so, what is the channel capacity of the State microwave service? 600 MHz
- 6-24 If so, is the State microwave service analog or digital? Analog / Digital
- 6-25 Is there 3' 0" minimum clearance in front of all equipment racks? Yes / No
- 6-26 Is there 3' 0" minimum clearance behind all equipment racks? Yes / No
- 6-27 Is there 3' 0" minimum clearance in front of all battery racks? Yes / No
- 6-28 Is there 3' 0" minimum clearance in front of the AC generator? Yes / No
- 6-29 Are all aisles a minimum of 3' 0" minimum in width? Yes / No
- 6-30 Is each relay rack secured with approved earthquake bracing (basically; 1½" x ¾" channel extending from wall to wall over each second rack, etc)? Yes / No
- 6-31 Are all adjacent relay racks bolted together? Yes / No
- 6-32 Are all relay racks fasten to the floor with four fasteners? Yes / No
- 6-33 How many racks are in the vault? 11
- 6-34 How many empty racks are there? 0
- 6-35 How many racks, meeting the requirements of Title 24 and Title 8, can be installed in the vault? 1
- 6-36 How many 19-inch racks does the vault contain? 11
- 6-37 How many 23-inch racks does the vault contain? 0
- 6-38 Does the vault contain commercial telephone service? Yes / No
- 6-39 Is there space to install cavities, meeting the requirements of Title 24 and Title 8, in the vault? Yes / No
- 6-40 Is there space to install cavities, meeting the requirements of Title 24 and Title 8, overhead in the vault? Yes / No
- 6-41 Is there space to install battery bank(s), meeting the requirements of Title 24 and Title 8, in the vault? Yes / No
- 6-42 If so, what is the maximum space available, meeting the requirements of Title 24 and Title 8, to install battery banks? _____
- 6-43 Does the site contain a UPS system? Yes / No
- 6-44 If so, what type? _____
- 6-45 If so, what capacity? _____

Site Name: _____

SECTION 7 – Electric Power Data

Commercial Power

- 7-1 If the site has commercial AC electric service, what type of service is furnished?
- 7-2 Two wire _____
- 7-3 Three wire (two wires plus neutral) ✓
- 7-4 Three wire, delta _____
- 7-5 Four wire, wye (three wires plus neutral) _____
- 7-6 Other _____
- 7-7 Is the power single phase, three phase or other? Single / Three / Other
- 7-8 If the power is three phase, what is the direction of the phase rotation? _____
- 7-9 What is the voltage of the furnished service? 120/240
- 7-10 What is the maximum current of the furnished service (main service disconnect)? 200 amps
- 7-11 Does the main service disconnect use circuit breakers or fuses? Breakers / Fuses
- 7-12 What is the connected load, if known? A 14 amps B 7 amps
- 7-13 What is the power company's meter number? PG&E 9458 TO
- 7-14 Any additional relevant site commercial power data information?
- Commercial power is brought up the hill and feeds a transformer that is housed in a vault along with (2) Meter socket panels. A 200amp main breaker feeds the Cal Trans 150KW Diesel Generator that is housed in another vault up the hill and acrossed the road from the transformer vault. The radio vault is up the hill from the generator vault and is fed from the "E" Pal in generator vault by a 100amp breaker

DC Chargers

- 7-15 How many DC chargers are at the site (larger than 500 watts) in the telecommunication radio equipment room? 1
- 7-16 How many DC chargers are at the site (larger than 500 watts) in the telecommunication generator room? 1

Starting with the largest DC output charger, for each charger:

Charger # 1:

7-17 Input voltage? 240v

Site Name: _____

7-18 Input amperes? 7
7-19 Output DC voltage? 26.4
7-20 Output DC amperes? 50

Charger # 2

7-21 Input voltage? _____
7-22 Input amperes? _____
7-23 Output DC voltage? _____
7-24 Output DC amperes? _____

Charger # 3

7-25 Input voltage? _____
7-26 Input amperes? _____
7-27 Output DC voltage? _____
7-28 Output DC amperes? _____

Charger # 4

7-29 Input voltage? _____
7-30 Input amperes? _____
7-31 Output DC voltage? _____
7-32 Output DC amperes? _____

Charger # 5

7-33 Input voltage? _____
7-34 Input amperes? _____
7-35 Output DC voltage? _____
7-36 Output DC amperes? _____

7-37 Any additional relevant site DC charger data information?

DC Batteries Banks

- 7-38 How many DC battery banks are at the site (larger than approx 400 ampere hours) in the telecommunication radio equipment room? _____
- 7-39 How many DC battery banks are at the site (larger than approx 400 ampere hours) in the telecommunication generator room? _____
- 7-40 At the site, how many DC battery banks are located outside? _____

Site Name: _____

Starting with the largest ampere hour battery bank, for each battery bank:

Battery Bank # 1:

7-41 Voltage? _____
7-42 Ampere-hours? _____
7-43 Type of battery? _____

Battery Bank # 2:

7-44 Voltage? _____
7-45 Ampere-hours? _____
7-46 Type of battery? _____

Battery Bank # 3:

7-47 Voltage? _____
7-48 Ampere-hours? _____
7-49 Type of battery? _____

Battery Bank # 4:

7-50 Voltage? _____
7-51 Ampere-hours? _____
7-52 Type of battery? _____

7-53 Any additional relevant site DC battery bank data information?

Photovoltaic Systems

N/A

7-54 Does the site have a photovoltaic power system(s)? Yes / No

7-55 If so, how many photovoltaic panels?

7-56 If so, what are the rated watts of the photovoltaic panels?

7-57 If so, how many photovoltaic controller(s)?

7-58 If so, what is the amperage of the controller(s)?

12v -a-	24v -b-	48v -c-

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Site Name: _____

7-59 Does the photovoltaic panel structure comply with California Code of Regulations, Title 24--
California Building Code, inclusive? Yes / No

7-60 Is the photovoltaic panel structure constructed of metal? Yes / No

7-61 How high is the highest photovoltaic panel from the ground? _____ feet

7-62 Any additional relevant site photovoltaic data information?

Thermoelectric Generator *N/A*

7-63 Does the site have a thermoelectric generator system(s)? Yes / No

7-64 If so, how many thermoelectric units? _____

7-65 If so, what is the output in watts of each thermoelectric unit? _____

7-66 If so, what is the DC output voltage of the thermoelectric system? _____

7-67 Does the thermoelectric unit(s) comply with California Code of Regulations, Title 24--
California Building Code, inclusive? Yes / No

7-68 Any additional relevant site thermoelectric generator data information?

AC Rotary Electric Generator

7-69 Does the site have an AC electric generator system? Yes / No

7-70 If so, how many KW is the generator? 150 KW

Site Name: _____

- 7-71 Is the generator rated as Prime or Standby? Prime ☒ Standby
- 7-72 Does the generator system have an automatic transfer panel? ☒ Yes ☐ No
- 7-73 Does the generator carry the complete site load? ☒ Yes ☐ No *Radio Vault*
- 7-74 Is there a load shedding system? Yes ☒ No
- 7-75 Is the generator located inside a building? ☒ Yes ☐ No
- 7-76 Is the generator located outside of a building? Yes ☒ No
- 7-77 Is there a commercial AC power operated battery charger for the generator? ☒ Yes ☐ No
- 7-78 Is the AC electric generator powered by propane fuel? Yes ☒ No
- 7-79 Is the AC electric generator powered by diesel fuel? ☒ Yes ☐ No
- 7-80 Is the AC electric generator powered by natural gas fuel? Yes ☒ No
- 7-81 Is there 3' 0" minimum clearance on each side of the AC electric generator? Yes ☒ No
- 7-82 Any additional relevant site AC rotary electric generator data information?

Site Name: _____

SECTION 8 – Fuel System Data

- 8-1 Does the site have a petroleum fuel system? Yes ☒ No
- 8-2 If so, what is the petroleum fuel system:
- 8-3 Propane? Yes / ☒ No
- 8-4 If so, how many gallons is the propane fuel system? _____
- 8-5 Is the propane tank secured to a concrete foundation at each tank leg? Yes / No
- 8-6 Does the propane tank 'leg(s) to foundation' securing fastener(s) meet Title 22, California Building Code, for seismic zone 4? Yes / No
- 8-7 Diesel? ☒ Yes / No
- 8-8 If so, how many gallons is the diesel fuel system? 500 gal
- 8-9 Is the diesel tank secured to a concrete foundation at each tank leg? Yes ☒ No
- 8-10 Does the diesel tank 'leg(s) to foundation' securing fastener(s) meet Title 22, California Building Code, for seismic zone 4? Yes / No ?
- 8-11 Any additional relevant site fuel system data information?
- The diesel fuel tank sets next to the generator inside the
generator vault.
- _____
- _____
- _____
- _____
- _____
- _____

Site Name: _____

Section 9 – Heating, Ventilating & Air Conditioning

- 9-1 Does the vault have a forced air ventilating system (fans)? Yes / No
- 9-2 If so, how big is the fan? ? How many fans? 1
- 9-3 If so, are automatic louvers included? No
- 9-4 Does the vault have an air conditioning system? Yes / No
- 9-5 If so, how many BTUH is the unit? _____
- 9-6 If so, does the vault have redundant air conditioning units? Yes / No
- 9-7 If so, how many BTUH total is the system? _____
- 9-8 If so, does the air conditioning unit(s) have capabilities to report alarms? Yes / No
- 9-9 If so, what alarms are reported? _____
- 9-10 If so, are these alarms reported to the State microwave system? Yes / No
- 9-11 Does the vault have an interior temperature gauge? Yes / No
- 9-12 If so, is the interior temperature reported to the State microwave system? Yes / No
- 9-13 Does the vault have an exterior temperature gauge? Yes / No
- 9-14 If so, is the exterior temperature reported to the State microwave system? Yes / No
- 9-15 Any additional relevant site heating, ventilating & air conditioning data information?
- 1- Vent
- 1- Exh Fan
- 1- Wall heater
- _____
- _____
- _____
- _____
- _____
- _____

Site Name: _____

SECTION 10 – Facilities Alarm and Control Data

- 10-1 If the site has commercial power, is the status of the commercial power reported to the State microwave system? Yes / No
- 10-2 If the site has commercial power and an automatic transfer to standby generator, is the status of the power transfer switch reported to the State microwave system? Yes / No
- 10-3 Does the AC electric generator have capabilities to report alarms? Yes / No
- 10-4 If so, what alarms are reported? _____

- 10-5 If so, are these alarms reported to the State microwave system? Yes / No
- 10-6 Does the AC electric generator have capabilities for remote start? Yes / No
- 10-7 Does the generator have capabilities for remote start via the State microwave system? Yes / No
- 10-8 If a petroleum fuel system(s) is present, is the fuel system level (tank fuel volume) status (remote fuel level) reported to the State microwave system? Yes / No
- 10-9 Does each tank have a remote fuel level-indicating device? Yes / No
- 10-10 Does the vault door have an alarm(s)? Yes / No
- 10-11 If so, is the vault door alarm(s) reported to the State microwave system? Yes / No
- 10-12 Any additional relevant site facilities alarm and control data information?
